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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,332	04/22/2005	Michael Arndt	10191/3858	9142
265-6 7550 09/08/2008 KENYON & KENYON LLP ONE BROADWAY			EXAMINER	
			JOHNSTON, PHILLIP A	
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			2881	
			MAIL DATE	DELIVERY MODE
			09/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/532 332 ARNDT, MICHAEL Office Action Summary Art Unit Examiner PHILLIP A. JOHNSTON 2881 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 28 May 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 7-18 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 7-18 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 22 April 2005 is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SZ/UE)
Paper No(s)/Mail Date ______

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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Detailed Action

 This Office Action is submitted in response to the RCE/Amendment filed 5-28-2008, wherein claims 7-18 are pending.

Claims Rejection - 35 U.S.C. 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this till. If the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- Claims 7-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 3,211,961 to Bayly, in view of Spaeth, USPN 4,158,133.
 - 4. Regarding claims 7 and 10, Bayly teaches a gas analyzer having;
 - (a) An infra-red radiation source 10. Col. 4, line 1-9;
 - (b) Detector 19. Col. 4, line 24-30;
- (c) One of interference filters 12-15 positioned between the source and the detector covering visible and infrared wavelengths ranging from 0.2μ to 6μ. Col. 4, line 31-44:
- (d) Each filter comprises two semi-transparent reflecting layers separated by a transparent medium whose thickness is equal to half the wavelength of light to be transmitted. The combined layers of the filters typically produce a bandpass (transmission characteristic) wavelength that is centered at $0.5~\mu$ increments, where the bandwidth of each filter is about 0.2μ to 0.3μ . Col. 4, line 12.36

Bayly fails to teach layers having transmission characteristics produced by absorption of infrared radiation.

Spaeth discloses a multilayer filter based on absorption. Col. 2, line 45-54; and Col. 4. line 1-22.

Spaeth modifies Bayly to provide an absorption filter that provides sufficient elimination of all wavelengths other than the bandpass wavelength.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made that Bayly would use the absorbing filter layers of Spaeth to provide filters which have maximum radiation permeability for the operating range of the photo-detector.

- 5. Regarding claims 8 and 11, Bayly teaches the use of multi-layered band pass filters, having selectable transmission characteristics, where the combined layers of the filters typically produce a bandpass (transmission characteristic) wavelength over the range from 0.2μ to 6μ , centered at 0.5μ increments, where the bandwidth of each filter is about 0.2μ to 0.3μ . Col. 4, line 12-36.
- Regarding claim 9, the combination of Bayly and Spaeth discloses the use of glass, Silicon, and Germanium layers. See Spaeth Col. 2, line 34-40.
- Regarding claim 12, the combination of Bayly and Spaeth discloses the use of Fabry-Perot filters. Col. 4. line 1-5.
- Regarding claims 13, 14, 16, and 17, the combination of Bayly and Spaeth discloses locating the filter layers in a line of transmission from the source. Col. 4, line
 1-9.

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9. Regarding claims 15 and 18, the combination of Bayly and Spaeth discloses layers that are serially placed on top of each other as described above regarding claims 7 and 10, and where layers are deposited on both surfaces of a transparent material (directly contacting). See Col. 4. line 9-12.

Conclusion

10. Any inquiry concerning this communication or earlier communications should be directed to Phillip Johnston whose telephone number is (571) 272-2475. The examiner can normally be reached on Monday-Friday from 7:00 am to 4:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiners supervisor Robert Kim can be reached at (571)272-2293. The fax phone number for the organization where the application or proceeding is assigned is 571 273 8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

P.I

September 3, 2008

/Phillip A Johnston/

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